



SEQUENCE LISTING

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AUG 08 2001

TECH CENTER 1600/2900

<110> Pastan, Ira H.
Chowdhury, Partha S.
The Government of the United States
as represented by The Secretary of the
Department of Health and Human Services

<120> Antibodies, Including Fv Molecules, and
Immunoconjugates Having High Binding Affinity for
Mesothelin and Methods for Their Use

<130> 015280-339100US

<140> US 09/581,345

<141> 2000-09-27

<150> US 60/067,175

<151> 1997-12-01

<150> WO PCT/US98/25270

<151> 1998-11-25

<160> 9

<170> PatentIn Ver. 2.0

<210> 1

<211> 723

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:SS scFv

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<210> 2

<211> 1917

<212> DNA

<213> Pseudomonas aeruginosa

<220>

<223> Pseudomonas aeruginosa exotoxin A CDS

<400> 2

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<210> 3

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<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:New G2 NdeI
back primer

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<210> 4

<211> 42

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:New G2 HindIII
forward primer

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42

<210> 5

<211> 241

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence:SS scFv

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 20 25 30

Tyr Thr Met Asn Trp Val Lys Gln Ser His Gly Lys Ser Leu Glu Trp
 35 40 45

Ile Gly Leu Ile Thr Pro Tyr Asn Gly Ala Ser Ser Tyr Asn Gln Lys
 50 55 60

Phe Arg Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Thr Ala
 65 70 75 80

Tyr Met Asp Leu Leu Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Phe
 85 90 95

Cys Ala Arg Gly Gly Tyr Asp Gly Arg Gly Phe Asp Tyr Trp Gly Gln
 100 105 110

Gly Thr Thr Val Thr Val Ser Ser Gly Val Gly Gly Ser Gly Gly Gly
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Asp Ile Glu Leu Thr Gln Ser Pro Ala
 130 135 140

Ile Met Ser Ala Ser Pro Gly Glu Lys Val Thr Met Thr Cys Ser Ala
 145 150 155 160

Ser Ser Ser Val Ser Tyr Met His Trp Tyr Gln Gln Lys Ser Gly Thr
 165 170 175

Ser Pro Lys Arg Trp Ile Tyr Asp Thr Ser Lys Leu Ala Ser Gly Val
 180 185 190

Pro Gly Arg Phe Ser Gly Ser Gly Ser Gly Asn Ser Tyr Ser Leu Thr
 195 200 205

Ile Ser Ser Val Glu Ala Glu Asp Asp Ala Thr Tyr Tyr Cys Gln Gln
 210 215 220

Trp Ser Gly Tyr Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Ile
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Lys

<210> 6

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:linker peptide
 connecting V-H and V-L in SS scFv

<400> 6

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<210> 7

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:peptide linker

<400> 7

Gly Gly Gly Ser
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<210> 8

<211> 4

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence:carboxyl
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<400> 8

Lys Asp Glu Leu
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<210> 9

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:carboxyl
 terminus

<400> 9

Arg Glu Asp Leu
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A4
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